DAILY ACTIVITY REPORT

Report # 1 **DATE** Jan 13 - 14, 2017 S M T W TH F S

Field Investigation Manager: Tim Thompson

WEATHER	Bright Sun	***Clear to Partly Cloudy***		Overcast	Rain
TEMPERATURE °F	<32°	***32-45***°	45-60°	60-70°	70-85°
WIND	***Still***	Mod.	High		
HUMIDITY	Dry	***Mod.***	Humid		

DAYTIME TIDES

01/13	Fri	04:44 PM	11.34 H
01/13	Fri	11:35 PM	-2.28 L

TASK: ☐ Industrial Area Soils ☐ Industrial Area Groundwater ☐ Surface Water ☑ Sediment ☐ MIS

SUBCONTRACTORS/VISITORS ON SITE: Tim Thompson, SEE; David Browning, BES; Kim Hawkins, HDR; Hailey Fitterer, HDR; Helen Bottcher, EPA; Ellen Brown, USACE; Susannah Edwards, Ecology

EQUIPMENT ON SITE: Trimble dGPS, hand cores

WORK PERFORMED (INCLUDE ANY SAMPLES COLLECTED):

1. Quadrant D11/D12. Collected samples from locations from the stations west off the EBS. Free product and creosote noted in location D11-c5 (see Figure 1). Individual station samples collected and archived. Composite sample made from the three individual collected stations. Depth to refusal of the measuring rod (rebar) was done here, the results are not relevant to the EBS as those locations were off the cover. (see Table 1).
2. Quadrants F11/F12, H12, and I12. Measured EBS cover thickness and collected samples at EBS station locations indicated in the Field Sampling Plan. Composite sample made from the three individual collected stations. No sheen or odor observed in these locations. Individual station archived samples not retained. (see Table 1).
3. Discrete Station East. Measured cover thickness and collected three discretionary locations in area where an apparent exposure of the underlying constructed cobble barrier layer is exposed (Figure 2). Composite sample made from the three individual collected stations. Individual station archived samples not retained. (Table 1). No sheen or odor noted at these three locations.
4. Discrete Station West. Measured cover thickness and collected three discretionary locations at the western edge of the EBS. Furthest west of those stations was close to old pilings. Composite sample made from the three collected individual station. Three sample collections archived (Table 1).
5. Composite quadrant samples per the FSP. Discrete sample archives retained for D11-c5, D11-e5, D12-d1, and for Discrete Station West A, B, and C. (see attached COC).
6. Collected field replicate and MS/MSD. (Table 1 and COC).
7. Visual surveys along the low tide line in the area of the former dock and NAPL pooled area for seeps.
8. Conducted thickness measures near the stormwater outfall. Water erosion apparent there. (see Table 2)
9. Packaged and completed Chain-of-Custody form for sample delivery in the morning of 1/14/17.
10. Conducted field rinsate at ARI the morning of the 14th. At lab deconned sample tube, bowl and spoons. Rinsed with deionized water, poured reagent grade water through the tube into the bowl (with spoons), and transferred the rinsate water back into glass sample jars. (see attached COC).

QUALITY CONTROL ACTIVITIES (INCLUDING FIELD CALIBRATIONS)

- Collected field replicate and MS/MSD. See attached chain-of-custody form.
- DID NOT do the rinsate blank in the field. That was done at ARI on 1/14/2017.

HEALTH AND SAFETY LEVELS AND ACTIVITIES: **Tailgate Meeting Held ☑**

- H&S briefing held in the EPA onsite building.
- Site safety meeting form attached to this report.

PROBLEMS ENCOUNTERED/CORRECTION ACTION TAKEN:

- Initial problems with calibrating and using the dGPS. Resolved in the field.
- dGPS locations for discretionary stations will need to be retrieved from the Trimble Unit. Those locations will be updated in a subsequent note.

SPECIAL NOTES:

- None

TOMORROW'S EXPECTATIONS:

- Offsite at 03:05 hrs on morning of 1/14/17.
- Samples were taken to ARI later on 1/14/17

ATTACHMENTS:

- Table 1 – EBS Sample Collection Date
- Table 2 – EBS Cover Thickness Measures made Proximal to Stormwater Outfall
- Figure 1 – Apparent sheen at D11-C5
- Figure 2 - Discrete East Station showing apparent erosion to underlying cobble layer
- Chain-of-Custody form
- Site Safety Meeting form

PREPARED BY: Tim Thompson

SIGNATURE: Filed electronically.

Table 1. EBS Sample Collection Data

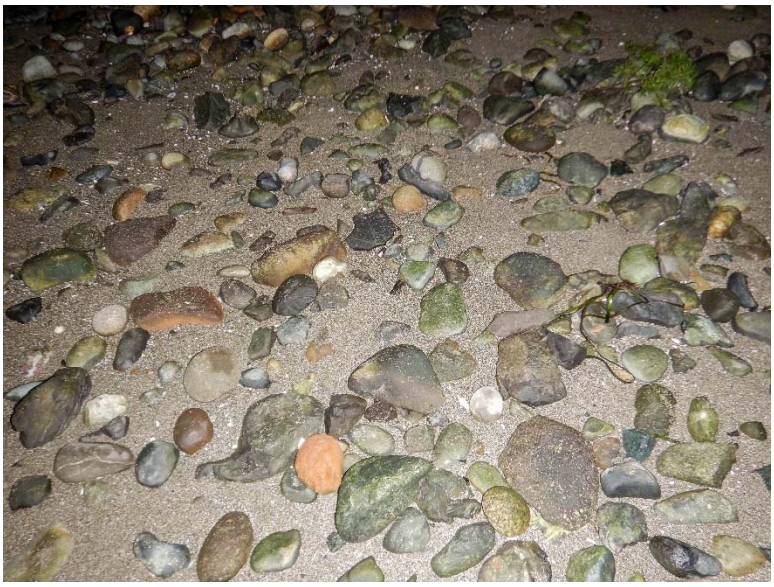
2016 Grid Cell Station	Latitude (NAD 83 N)	Longitude (NAD 83 W)	Collection Date	Collection Time	Measured Depth of EBS Cover (ft)	Core Drive Depth (ft)	Acquisition (ft)	Archive Retained	Composite Sample Blind I.D.	Comments
Exposure Barrier System FSP-specified Locations										
D-12										
D12-d1	47°36 58.72	122°30 33.08	1/13/2017	21:11	0.90	1.00	0.95	X	011317001	
D11-e5	47°36 59.15	122°30 32.54		21:25	2.00	2.00	1.90	X		
D11-c5	47°36 59.33	122°30 33.66		21:42	2.00	2.00	1.90	X		
F-12										
F12-d1	47°36 58.75	122°30 25.60	1/13/2017	22:49	1.50	1.00	n.d.	---	011317002	
F11-c5	47°36 59.36	122°30 26.17		22:32	2.00	1.50	n.d.	---		
F11-e5	47°36 59.18	122°30 25.06		23:02	2.00	1.50	1.50	---		
H-12										
H12-a2	47°36 58.61	122°30 21.02	1/13/2017	23:25	2.00	1.65	1.65	---	011317003	
H12-a1	47°36 58.86	122°30 20.81		23:45	2.20	1.50	1.50	---		
H12-b2	47°36 58.46	122°30 20.02		23:55	2.05	1.50	1.50	---		
I-12										
I12-c3	47°36 58.00	122°30 15.59	1/14/2017	0:16	2.35	1.60	1.60	---	011317004	
I12-b2	47°36 58.36	122°30 16.27		0:24	2.00	1.50	1.45	---		
I12-e2	47°36 58.57	122°30 14.18		0:35	0.95	1.00	n.d.	---		
Discrete East Sampling Locations										
A	Latitude and Longitude still need to be retrieved from the Trimble dGPS.		1/14/2017		0.00	Underlying cobble exposed. Hole hand-dug to 2 ft and sand extracted for sample composite		---	011317005	
B					0.00			---		
C					0.00			---		
Discrete West Sampling Locations										
A	Latitude and Longitude still need to be retrieved from the Trimble dGPS.		1/14/2017	1:55	1.90	1.40	1.30	X	011317006	MS/MSD
B				2:05	1.90	1.05	1.10	X	011317007	Field Replicate
C				2:15	2.10	1.70	1.60	X		

Table 2. EBS Cover Thickness Measures Made Proximal to Stormwater Outfall

East EBS Cover Thickness Checks	Collection Date	Collection Time	Latitude (NAD 83 N)	Longitude (NAD 83 W)	Measured Depth of EBS Cover (ft)	Comments
1	1/14/2017	Approximately 13:00 hours (estimated from field notebook)	Latitude and Longitude still need to be retrieved from the Trimble dGPS.		0.35	• No odor or sheen • At least 1 ft of cobble in this area
2					0.40	
3					0.80	
4					0.85	
5					0.85	

Figure 1: Apparent sheen at D11-C5 (photo from H. Bottcher)

Figure 2: Discrete East Station showing apparent erosion down to underlying cobble layer



Chain of Custody Record & Laboratory Analysis Request

Science and Engineering for the Environment LLC
4401 Latona NE
Seattle, WA 98105
206-418-6173

SEE LLC
Science & Engineering for the Environment

Lab Assigned Number:	Turn-around Requested: Normal				Date: January 14, 2017																				
Client Company: HDR	Phone: 425-245-9130				Page: 1 of 1																				
Client Contact: Jeff Fellows					No. of Coolers: 2 Cooler Temps:																				
Client Project Name: East Eagle Harbor OU 2016 OMMP Monitoring					Analysis Requested																				Notes/Comments
Client Project #:	Samplers: HDR, SREE				Grain Size	TOC	Total Solids	PAHs 8270 SIM	PCP by 8041	Chem Archive	MS/MSD														
Sample ID	Date	Time	Matrix	No. Containers																					
11317001	1/13/2017	21:11	Sediment	4	✓	✓	✓	✓	✓	✓															
11317002	1/13/2017	22:47	Sediment	4	✓	✓	✓	✓	✓	✓															
11317003	1/13/2017	23:32	Sediment	4	✓	✓	✓	✓	✓	✓															
11317004	1/14/2017	0:16	Sediment	4	✓	✓	✓	✓	✓	✓															
11317005	1/14/2017	1:17	Sediment	4	✓	✓	✓	✓	✓	✓															
11317006	1/14/2017	01:55	Sediment	5	✓	✓	✓	✓	✓	✓	✓														
11317007	1/14/2017	01:55	Sediment	4	✓	✓	✓	✓	✓	✓															
D12-d1	1/13/2017	21:11	Sediment	1						✓															
D11-e5	1/13/2017	21:25	Sediment	1						✓															
D11-c5	1/13/2017	21:42	Sediment	1						✓															
Discrete West A	1/14/2017	---	Sediment	1						✓															
Discrete West B	1/14/2017	---	Sediment	1						✓															
Discrete West C	1/14/2017	---	Sediment	1						✓															
01141701 W	1/14/2017	10:59	water	1				✓																	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)		Received by: (Signature)
	Printed Name: Tim Thompson	Printed Name: David R Mitchell	Printed Name:		Printed Name:
	Company: SEE	Company: ABI	Company:		Company:
	Date & Time: 1/14/2017 11:05	Date & Time: 1/14/17 11:05	Date & Time:		Date & Time:

Site Safety Meeting Form

Project Name: EHOU
Date: 1/13/2017
Project Number:

Location: EPA Field Office
Time: 2000
Instructor: Thompson

Thompson, Browning, Bottcher, Edwards, Hawkins, Fitterer, Brown

Safety Topics Presented

JHA/STAR: Cold hazards. Appropriate safety gear, slip hazards on ice. Gloves – potential for encountering NAPL. Eye protection when using UV lights, emergency procedures, lifting

Lessons Learned: None

BEST O&F: —

General Safety Topics: Stressed cold hazards due to clear skys and temps in the low 30's high 20s.

Name	Attendee's Signature
Tim Thompson	
David Browning	
Kim Hawkins	
Hailey Fitterer	
Helen Bottcher	
Susanna Edwards	

Identify Potential Hazards

- ☒ Abrasions
- ☐ Biological Hazards (Plants, Animals, Insects) dNA
- ☐ Cave-in (Trench/Excavation Work) dNA
- ☒ Chemical/Thermal Burn
- ☐ Cuts
- ☐ Dermatitis dNA
- ☐ Dropping Materials/Tools to Lower Level
- ☐ Drowning/Flowing Water
- ☐ Dust dNA
- ☐ Electrical Shock dNA
- ☐ Elevated/Overhead Work dNA
- ☐ Energized Equipment dNA
- ☒ Fire dNA
- ☐ Flammability dNA
- ☒ Foreign Body in Eye
- ☒ Hazardous Materials (Exposure or Release)
- ☐ Heat or Cold Stress
- ☐ Heavy Equipment Operation dNA
- ☐ Heavy Lifting
- ☒ High Noise Levels
- ☐ Impact Noise
- ☐ Inability to Maintain Communication
- ☒ Inclement Weather
- ☐ Overhead Work dNA
- ☐ Overhead Utilities dNA
- ☐ Underground Utilities dNA
- ☐ Pinch Points
- ☐ Pressurized Lines dNA
- ☒ Slips, Trips, Falls
- ☒ Sprains/Strains
- ☒ Traffic dNA
- ☐ Underground Utilities dNA
- ☐ Confined Space dNA
- ☒ New or Rental Equipment dNA
- ☒ Surface Water Run-On/Run-Off
- ☒ Odor/VOC Emissions dNA
- ☐ Compressed Gas Cylinders dNA
- ☒ Generated Wastes (Solids/Liquids)
- ☒ Known/Unknown Visitors
- ☐ Visibility
- ☒ New Personnel
- ☐ Hoists/Rigging/Slings/Wire Rope dNA
- ☐ Special Operations/Instructions (Attach)
- ☐ Ergonomics

Identify Controls

- ☐ Air Monitoring
- ☐ Barricades/Fencing/Silt Fencing
- ☑ Buddy System
- ☒ Appropriate Clothing/Monitoring of Weather
- ☐ Confined Space Procedures
- ☒ Decontamination
- ☒ Drinking Water/Fluids
- ☐ Dust abatement Measures
- ☒ Equipment Inspection
- ☒ Exclusion Zones
- ☐ Exhaust Ventilation
- ☐ Fall Protection
- ☐ Fire Extinguisher/Fire Watch
- ☐ Flotation Devices/Lifelines
- ☐ Grounds on Equipment/Tanks
- ☐ Ground Fault Interrupter
- ☐ Ground Hydraulic Attachments
- ☒ Hand Signal Communication
- ☐ Hazardous/Flammable Material Storage
- ☐ Hazardous Plant/Animal Training
- ☐ Hearing Protection (Specify)
- ☐ Hoses, Access to Water
- ☐ Hot Work Procedures
- ☐ Insect Repellent or Precautions
- ☐ Isolation of Equipment or Process (LO/TO)
- ☐ Stormwater Control Procedures/Methods
- ☐ Machine/Equipment Guarding
- ☒ Manual Lifting Equipment (Chain Falls)
- ☒ Protective Equipment (Specify) PFD
- ☒ Proper Lifting Techniques
- ☒ Proper Tool for Job
- ☐ Radio Communication
- ☐ Respirator, (Specify Type)
- ☐ Safety Harness/Lanyard/Scaffold
- ☐ Sloping, Shoring, Trench Box
- ☐ Vehicle Inspection
- ☐ Spill Prevention Measures/Spill Kits
- ☐ Equipment Manuals/Training
- ☒ Emergency Procedures/Incident Management Plan
- ☐ Appropriate Labels/Signage
- ☒ Derived Waste Management Plan
- ☐ Visitor Escort/Orientation/Security
- ☐ Window Cleaning/Defrost
- ☐ Proper Work Position/Tools

Pre-Task Review (Yes/No/NA)

1. Has Job Hazard Analysis been completed and reviewed? Yes
2. Is Job Scope understood by all Personnel? Yes
3. Proper Safety Equipment on job site? Yes
4. Permit Issued?
   What type? ☐ Hot Work
   ☐ Confined Space ☐ Excavation
   ☐ Other: _____
5. Proper Tools for Job on site? Yes
6. Oxygen/Flammability checked? ✓
7. Reviewed MSDSs for any hazardous substance that might be present? ✓
8. Proper training for all personnel? ✓
9. Are there any planned deviations from set procedures for equipment modifications? ✓ If so, contact supervisor to check applicability of MOC procedures.
10. Is there any work planned that could cause activation of emergency procedures? ✓ If so, have these procedures been discussed and communicated?

Post-Task Review

1. Work area cleaned up? Yes
2. All locks and tags removed and signed off by individuals? dNA
3. Have Permits been turned in? dNA
4. STAR submitted to EHS Department? _____
5. Were there any unplanned deviations from set procedures or equipment modifications? NO
   If so, contact supervisor to check applicability of MOC procedures.